

WHAT IS CLAIMED IS:

1 1. A porous metal oxide material in a flake form having a
2 specific surface area of 110 to 3000 m²/g, an average particle
3 diameter of 5 to 500μm, an average thickness of 0.10 to 5μm,
4 and an average aspect ratio of 5 to 300.

1 2. The porous metal oxide material in a flake form according
2 to Claim 1, wherein the porous metal oxide material in a flake
3 form has a peak fine pore diameter of 2 to 20 nm.

1 3. The porous metal oxide material in a flake form according
2 to Claim 1 or 2, wherein the porous metal oxide material in
3 a flake form is obtained by applying a colloid solution
4 containing colloidal particles of the metal oxide having a
5 particlediameterof 5 to 500 nm on a substrate, drying to solidify
6 the colloid solution, delaminating the resultant solid from
7 the substrate, and heating the solid.

1 4. The porous metal oxide material in a flake form according
2 to Claim 1, wherein the porous metal oxide material in a flake
3 form primarily contains at least one kind selected from the
4 group consisting of silicon dioxide (SiO₂), magnesium oxide
5 (MgO), aluminum oxide (Al₂O₃), zirconium oxide (ZrO₂), zinc oxide
6 (ZnO), chrome oxide (Cr₂O₃), titanium dioxide (TiO₂), antimony
7 trioxide (Sb₂O₃), and iron oxide (Fe₂O₃).

1 5. The porous metal oxide material in a flake form according
2 to Claim 4, wherein the metal oxide material is silicon dioxide
3 or primarily contains silicon dioxide.

1 6. A carrier formed by carrying an odorant, a coloring agent,
2 an antibacterial agent or a catalyst in the fine pores of the
3 porous metal oxide material in a flake form according to Claim
4 1.

1 7. A cosmetic comprising the porous metal oxide material
2 in a flake form according to Claim 1.

1 8. The cosmetic according to Claim 7, wherein the cosmetic
2 contains the flake form of 0.1-95 % by weight.

1 9. A cosmetic comprising the carrier according to Claim 6.

1 10. A coating composition comprising the porous metal oxide
2 material in a flake form according to Claim 1.

1 11. A coating composition comprising the carrier according
2 to Claim 6.

1 12. A resin composition comprising the porous metal oxide

2 material in a flake form according to Claim 1.

1 13. A resin composition comprising the carrier according to
2 Claim 6.

1 14. A resin molded body molded by using the resin composition
2 according to Claim 12 or 13.

1 15. An ink composition comprising the carrier according to
2 Claim 6.

1 16. A paper comprising the porous metal oxide material in
2 a flake form according to Claim 1.

1 17. A method for producing a porous metal oxide material in
2 a flake form according to any one of Claim 1 or Claim 2, which
3 comprises:

4 applying a colloid solution containing colloidal
5 particles of the metal oxide having a particle diameter of 5
6 to 500 nm on a substrate;

7 drying to solidify the colloid solution;

8 delaminating the resultant solid from the substrate; and

9 heating the solid.

1 18. The method for producing the porous metal oxide material
2 in a flake form according to Claim 11, wherein the porous metal
3 oxide material in a flake form primarily contains at least one
4 kind selected from the group consisting of silicon dioxide (SiO_2),
5 magnesium oxide (MgO), aluminum oxide (Al_2O_3), zirconium oxide
6 (ZrO_2), zinc oxide (ZnO), chrome oxide (Cr_2O_3), titanium dioxide
7 (TiO_2), antimony trioxide (Sb_2O_3), and iron oxide (Fe_2O_3).